# REMARKS

Applicants will address each of the Examiner's comments and objections in the order in which they appear in the Office Action.

# Election/Restriction

In the Office Action, the Examiner has made the restriction requirement Final. Applicants traverse this requirement for the reasons discussed in the previous response.

While Applicants traverse this restriction, in order to advance the prosecution of this application, Applicants confirm their election to prosecute Group II, Claims 79-85, in the above-identified application and are canceling the non-elected claims without disclaimer or prejudice to filing a divisional application on these non-elected claims.

# **Priority**

The Examiner states in the Office Action that Applicants have not filed a certified copy of the Japanese application in which priority is claimed under 35 USC §119. Applicants respectfully disagree.

The present application is a continuation under 35 USC §120 of prior U.S. application serial no. 09/735,096 filed on December 11, 2000. As shown in the attached copy of the transmittal and return post card, from the '096 application, a certified copy of the priority document for Japanese application serial no. 11-356732 filed December 15, 1999 in Japan was filed in the '096 application on December 11, 2000. The receipt of the certified copy was acknowledged by the Examiner in the Office Action of August 30, 2002 in the '096 application (copy attached). Therefore, the certified copy has been properly filed as required under 35 USC §119. Accordingly, it is respectfully

requested that the Examiner acknowledge the filing of this certified copy and withdraw this objection.

# Specification

The Examiner also objects to the title as not being descriptive and is requiring a new title be submitted. Accordingly, Applicants are amending the title to recite "OLED Display With Auxiliary Electrode." It is respectfully submitted that this overcomes the Examiner's objection, and it is requested that the objection be withdrawn.

# Allowable Subject Matter

Applicants appreciate the Examiner's allowance of Claims 79-85. As all other claims have been canceled, the application is now in a condition for allowance.

#### Interference Suggestion

On October 28, 2006, Applicants filed an Interference Suggestion with Claims 79-93.<sup>1</sup> These claims were copied from or are substantially similar to claims 1, 2, 5-7, 9, 10, 15, 16, 19-23 and 28 of US 6,812,637. Pending Claims 79-85 in the present application are still either identical or substantially similar to claims 1, 2, 5-7, 9 and 10 of the '637 patent.

In the Interference Suggestion, Applicants suggested the declaration of an interference between the present application and issued patent USP 6,812,637 (Cok). Applicants proposed a Count I. Claims 1, 2, 5-7, 9 and 10 of the '637 patent correspond to Count I and Claims 79-85 of the present application correspond to Count I.

<sup>&</sup>lt;sup>1</sup> Applicants are filing a divisional application for the non-elected claims, including Claims 86-93 from this application. Applicants will file an interference suggestion in the

Proposed Count I is as follows:

# Count I

A top emitting OLED display, comprising:

- a) a substrate;
- b) a patterned electrode formed above the substrate, defining a plurality of light emitting elements having gaps between the light emitting elements;
  - c) a layer of OLED material disposed above the patterned electrode;
  - d) a continuous transparent electrode disposed above the layer of OLED material; and
- e) a light-absorbing auxiliary electrode that is thermally and electrically conductive and in electrical and thermal contact with the continuous transparent electrode and located over the gaps between the light emitting elements of the display.

Claim 79 of the present application corresponds exactly to Count I, and therefore, the count would have anticipated the subject matter of this claim, if the count was prior art. Dependent claims 80-85 of the present application also correspond to Count I. Claim 1 of the '637 patent corresponds to Count I, as claim 1 is the same as Count I. Dependent Claims 2, 5-7, 9 and 10 of the '637 patent also correspond to Count I.

Applicants also showed in the Interference Suggestion the following:

- a. Correspondence of the claims to the count;
- b. Why Applicants will prevail on priority over the '637 patent; and
- c. Support for independent Claim 79 in the present application;

Accordingly, Applicants believe that there is interfering subject matter between the present application and the '637 patent and believe an interference should be declared. Applicants should be the senior part in this interference. Therefore, it is respectfully requested that such an interference

be declared.

# Conclusion

It is respectfully submitted that the present application is in a condition for allowance.

It is respectfully requested that an interference be declared at this time between the present application and the '637 patent.

If any fee should be due for this amendment, please charge our deposit account 50/1039.

Favorable reconsideration is earnestly solicited.

Respectfully submitted,

Mark J. Murphy

Registration No. 34,225

COOK, ALEX, McFARRON, MANZO, CUMMINGS & MEHLER, Ltd. 200 West Adams Street, Suite 2850 Chicago, Illinois 60606 (312) 236-8500

Customer no. 26568

Attorney Docket No. SEL 230

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE PATENT APPLICATION TRANSMITTAL LETTER

OIPE

Transmitted herewit	for filing is the patent application of:	
1. Inventor	s): <u>Takeshi NISHI and Noriko ISHIMARU</u>	
2. Title:	EL Display Device	
Name of applican applicant(s)	(s) and current correspondence address	of
Name: Citizenship: Residence Mailing Addre	Kanagawa, Japan	<u>S,</u>
Name: Citizenship: Residence Mailing Addres	Noriko ISHIMARU  Japanese  Kanagawa, Japan  c/o Semiconductor Energy Laboratorie  Co., Ltd., 398, Hase, Atsugi-sh  Kanagawa-ken 243-0036 Japan	s. i.
Enclosed are:		
X	3 Sheets of Drawings	
 	X Formal Informal	
	signment of invention to <u>Semiconductor Ener</u> coratory Co., Ltd.	āХ
<u> </u>	6 Pages of Specification	
<u>X</u>	6 Pages of Claims	
X A	stract of The Disclosure	
S	atement of Small Entity	
XD	claration and Power of Attorney	
X I	formation Disclosure Statement	

X	Appointment of Associate Attorneys
Applicants foreign applicat	claim priority under 35 USC $\$119$ to the following ion:
Serial no.	11-356732 filed December 15, 1999 in Japan.
X	A certified copy of this priority document is enclosed herewith.
	Please enter the attached amendment before calculating the fees.

Claims as Filed

	Number Filed		Number Extra	Rate	Fee
Total	36	-20	16	(small entity) x 9 (others) x 18	\$288.00
Independent	4	-3	1	(small entity) x 40 (others) x 80	\$80.00
Multiple Dependent	No			(small entity) x 135	\$0.00
Basic Fee				(small entity) x 355 (others) x 710	\$710.00
Assignment					\$40.00
Total Fee					\$1118.00

Please charge my Deposit Account No. 50/1039 in the amount of \$ \_\_\_\_\_. A duplicate copy of this sheet is enclosed.

The Commissioner is hereby authorized to charge any additional fees (except the issue fee) which may be required at any time during the prosecution of this application without specific authorization, or credit any overpayment to Deposit Account No. 50/1039. A duplicate copy of this sheet is enclosed.

 $\underline{X}$  A check in the amount of \$\frac{1118}{2118}.00 is enclosed to cover the filing fee and the recordation of the Assignment, if any, transmitted herewith.

Date: December 1, 2000

Mark J. Murphy
Registration No.: 34,225
COOK, ALEX, MCFARRON, MANZO,
CUMMINGS & MEHLER, LTD.
200 West Adams St.
Suite 2850
Chicago, Illinois 60606
(312) 236-8500

"Express Mail" Mailing Label No. EL613563562

Date of Deposit December 11, 2000

Thereby certify that this correspondence is being deposited with the United States Postal Service

Thereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CF-3 1.10 on the date indicated above and is a Idressed to: Commissioner for Parints, I Vashington, D.C. 20231

Name: Cristine M. Noll (typed or printed)

Signature Criatiam, no



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/735,096	12/11/2000	Takeshi Nishi	SEL 230	5341
759	00/20/2002			
COOK, ALEX	, McFARRON, MAN MEHLER, LTD.	EXAMINER		
SUITE 2850	·	TRAN, THUY V		
200 WEST ADA CHICAGO, IL			ART UNIT	PAPER NUMBER
,			2821	THE ENTONIBER
			DATE MAILED: 08/30/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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COOK, ALEX, McFARRON, MANZO, CUMMINGS & MEHLER

CASE 0553-0230
ATTY. - Im/ym
DUE DATE DETUTY
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RESPECTED BY ATTY DET TO
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OIPE		1			
	Application No.	Applicant(s)			
( ANG 2.8 2006 E)	09/735,096	NISHI ET AL.			
Office Action Summary	Examiner	Art Unit			
FRADEMANT.	THUY V. TRAN	2821			
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).  Status	136(a). In no event, however, may a reply be tin ply within the statutory minimum of thirty (30) day d will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on 12	<u>/11/2000 &amp; 01/03/2002</u> .				
2a)☐ This action is <b>FINAL</b> . 2b)☒ T	his action is non-final.				
Since this application is in condition for allow closed in accordance with the practice unde Disposition of Claims	vance except for formal matters, pr or <i>Ex parte Quayle</i> , 1935 C.D. 11, 4	rosecution as to the merits is 153 O.G. 213.			
4) Claim(s) 1-36 is/are pending in the application	on.				
4a) Of the above claim(s) is/are withdra	awn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-36</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	or election requirement.				
Application Papers					
9) The specification is objected to by the Examin					
10)⊠ The drawing(s) filed on 11 December 2000 is/					
Applicant may not request that any objection to t					
11) The proposed drawing correction filed on		oved by the Examiner.			
If approved, corrected drawings are required in r					
12) The oath or declaration is objected to by the E	examiner.				
Priority under 35 U.S.C. §§ 119 and 120		) ( I) = . (D			
13) Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.C. § 119(a	1)-(a) or (t).			
a)⊠ All b)□ Some * c)□ None of:					
<ol> <li>Certified copies of the priority document</li> </ol>					
2. Certified copies of the priority document					
<ul> <li>Copies of the certified copies of the pri application from the International E</li> <li>See the attached detailed Office action for a list</li> </ul>	Bureau (PCT Rule 17.2(a)).				
14) ☐ Acknowledgment is made of a claim for domes	stic priority under 35 U.S.C. § 119(	e) (to a provisional application).			
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			

Art Unit: 2821

#### **DETAILED ACTION**

# **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

# Inventorship

2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

# Abstract Objection

3. The abstract of the disclosure is objected to because of the following informalities:

Line 3, change "109" to --(109)--;

Lines 4 and 5, change "108" to --(108)--.

Correction is required. See MPEP § 608.01(b).

# Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Art Unit: 2821

A person shall be entitled to a patent unless -

(e) the invention was described in-

- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 5. Claims 1-7, 9-16, 18-25, 27-34, and 36 are rejected under 35 U.S.C. 102(e) as being anticipated by Hamada (U.S. Patent No. 6,114,715).

As to claims 1, 10, 19, and 28, Hamada discloses, in figure 8, an EL display device comprising (1) an active matrix substrate [102] over which pixels [42] are arranged, and (2) an EL element [109] having a pixel electrode as a cathode [108], an anode [103], and an EL layer [106], wherein (i) the pixel electrode [108] is connected to a thin film transistor [43], and (ii) a metal thin film [2] is provided on/on a portion of the anode or between the anode/a portion of the anode and a counter substrate [104] so as to conceal gaps between the pixels.

As to claims 2, 11, 20, and 29, Hamada inherently teaches that the metal film has a film resistance, which is lower than that of the anode (see col. 5, lines 62-65).

As to claims 3, 12, 21, and 30, Hamada teaches that the metal film functions as a light shielding film (see col. 5, lines 62-65; col. 6, lines 60-61).

As to claims 4, 13, 22, and 31, Hamada teaches that the metal film has a layered structure (see figure 8).

As to claims 5, 14, 23, and 32, Hamada teaches that raised portions [107] are provided on a surface of the cathode of the EL element (see figure 8).

Art Unit: 2821

As to claims 6, 15, 24, and 33, Hamada teaches that an element of the metal film is selected from the group of Ti, Al, Ta, W, Cr, Cu, and Ag (see col. 6, lines 60-61).

As to claims 7, 16, 25, and 34, Hamada teaches that the anode comprises indium tin oxide (see col. 2, lines 6-7).

As to claims 9, 18, 27, and 36, Hamada inherently teaches that the EL display device is one selected from the group consisting of a video camera, a head-mount display, a personal computer, a car navigation system, a mobile telephone, and a car audio equipment (see col. 1, lines 5-8).

# Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 8, 17, 26, and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamada.

As to claims 8, 17, 26, and 35, Hamada discloses all of the claimed subject mater, as expressly recited in claims 1, 10, 19, and 28, except for the cathode being made of aluminum. However, aluminum has been well-known in the art as a good electrical-conductive material. Therefore, to make the cathode of Hamada in aluminum for a good electrical-conduction would have been deemed obvious to a person skilled in the art.

Art Unit: 2821

# Citation of relevant prior art

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Prior art Yamada et al. (U.S. Patent No. 6,072,450) discloses a display apparatus.

# Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to THUY V. TRAN whose telephone number is (703) 305-0012. The examiner can normally be reached on M-F (8:30-6:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DON K. WONG can be reached on (703) 308-4856. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-3807 for regular communications and (703) 746-3807 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Thuy Vinh Tran August 25, 2002

Supervisery Patent Examine Technology Center 2800



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THE U.S. PATENT & TRADEMARK OFFICE OFFICIAL MAILROOM STAMP AFFIXED HERETO, ACKNOWLEDGES RECEIPT OF: 2
ENCLOSURES:  (X) Application Patent
(x) Specification 40 pages (x) Claims 6 pages (x) Abstract 1 page(s)
(x) Drawing Sheets no. 13 (F) X (INF) (x) Transmittal Letter: New Patent Application (x) Check \$ 1118.00 No: 3994
<ul> <li>(X) Declaration/Oath</li> <li>(X) Assignment and Cover Sheet</li> <li>(X) Information Disclosure Statement &amp; References</li> </ul>
<ul><li>( ) Response/Amendment</li><li>( ) Extension of Time (In Duplicate)</li><li>( ) Small Entity Status</li></ul>
<ul><li>(X) Copy of Priority Document: Japan#11-356732</li><li>(X) Appointment of Associate Attorneys</li></ul>
RE: APPLICATION ATTY/SEC: MJM/cn
Applicant: Takeshi NISHI et al
S.N.: Not AcademoRilling Date: Homosateh

EL Display Device

Due date: 12/15/2000 Date Sent: 12/11/2000

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